

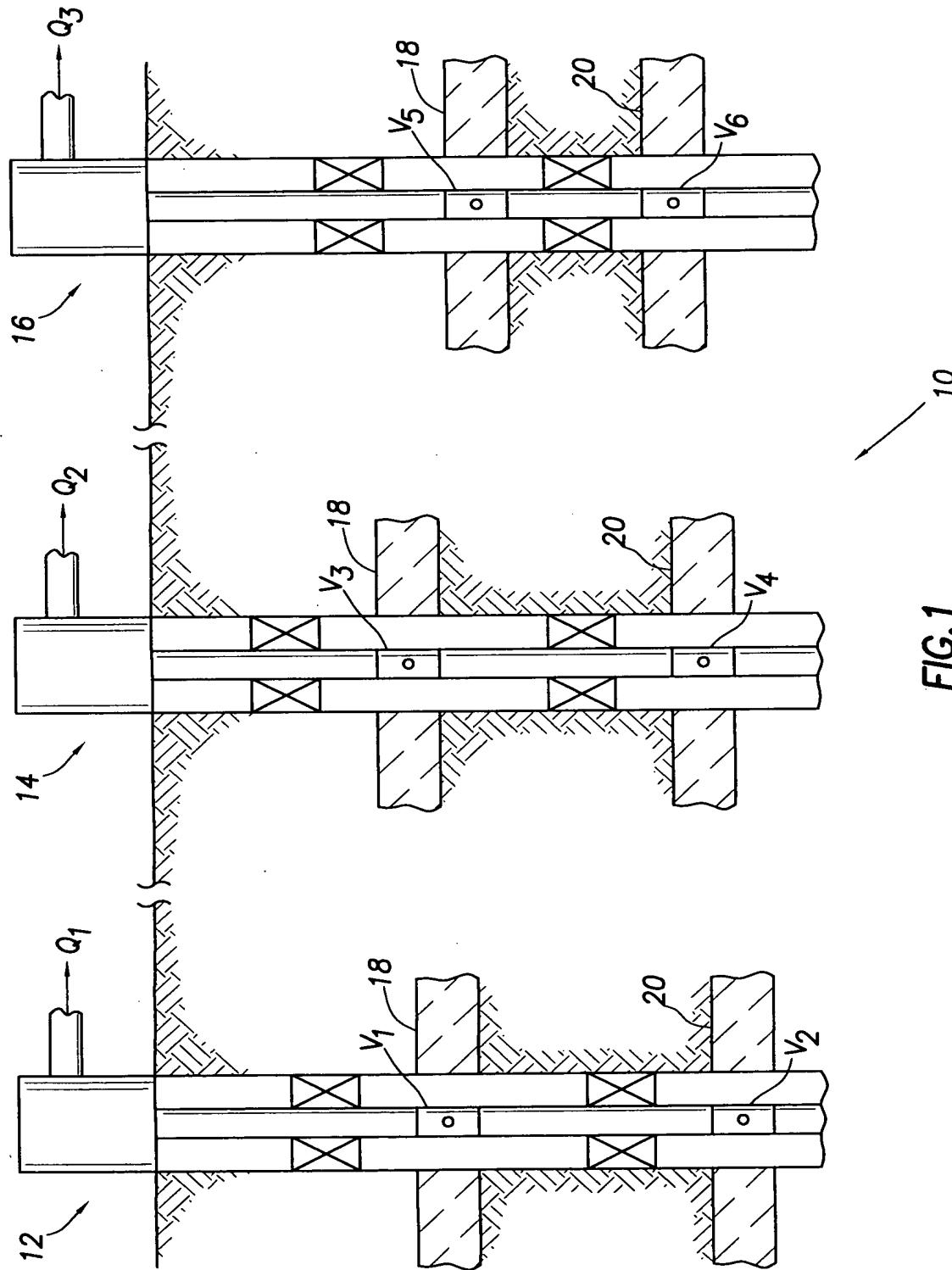
FIELD/RESERVOIR OPTIMIZATION UTILIZING NEURAL NETWORKS

Inventors: Roger L. Schultz, Bruce H. Storm, Jr., John Dennis and John M. Richardson

Attorney Docket No.: 20001P000092 Attorney: KONNEKER & SMITH, P.C. Phone: (972) 516-0030

1/3

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24

2/3

TRAINING DATA SET 1 $V_{1,1} V_{2,1} V_{3,1} V_{4,1} V_{5,1} V_{6,1} Q_{1,1} Q_{2,1} Q_{3,1}$
 TRAINING DATA SET 2 $V_{1,2} V_{2,2} V_{3,2} V_{4,2} V_{5,2} V_{6,2} Q_{1,2} Q_{2,2} Q_{3,2}$

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TRAINING DATA SET n $V_{1,n} V_{2,n} V_{3,n} V_{4,n} V_{5,n} V_{6,n} Q_{1,n} Q_{2,n} Q_{3,n}$

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28

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FIG.2

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26

$V_{1,1} V_{2,1} V_{3,1} V_{4,1} V_{5,1} V_{6,1}$
 $V_{1,2} V_{2,2} V_{3,2} V_{4,2} V_{5,2} V_{6,2}$

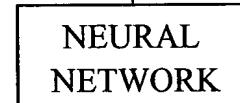
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$V_{1,n} V_{2,n} V_{3,n} V_{4,n} V_{5,n} V_{6,n}$

10



22

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NEURAL
NETWORK

$Q_{1,1} Q_{2,1} Q_{3,1}$

$Q_{1,2} Q_{2,2} Q_{3,2}$

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$Q_{1,n} Q_{2,n} Q_{3,n}$

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FIG.3

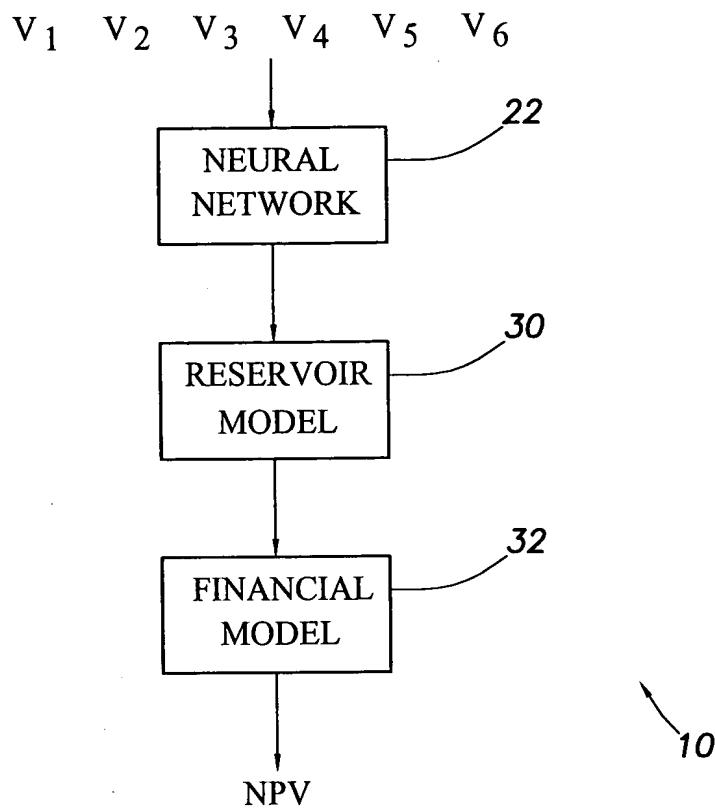
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3/3

FIG. 4



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FIG. 5

